Steve Y. Cho, Reg. No. 44,612, (650) 326-2400 Titled: Remote Copy with Path Selection and Prioritization Inventor(s): Kenji Yamagami, et al. Filed: October 2, 2003 Dckt. No. 16869B-036610US Sheet 1 of 16

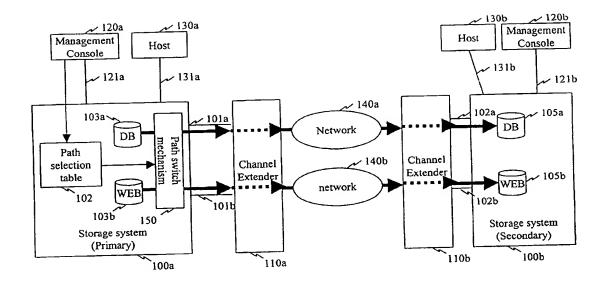


FIG. 1A

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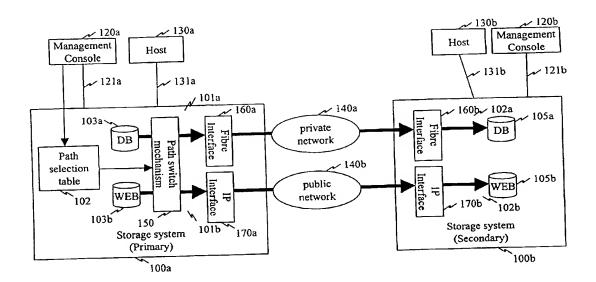


FIG. 1B

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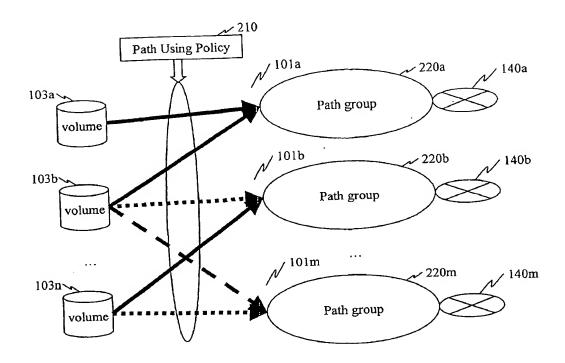


FIG. 2

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FIG. 3

310 سے	320a بىر	320b سر
Volume number	Path group number	Path group number
0	0	NULL
1	l	0
2	0	NULL
3	1	NULL
4	1	0

410 س	420 سر	440 سر	430a سے	430b	430c سر
Path group number	Constraint	Status	Remote link number	Remote link number	Remote link number
0	Max 5MB/s	Unavailable	0	1	NULL
1	9:00pm to 6:00am only	Available	2	3	4
2	Busy rate less than 70%	Available	5	6	NULL
3	Error rate less than 5%	Temporally Unavailable	7	8	NULL
4	Outboard control	Temporally Unavailable	9	10	11

FIG. 4

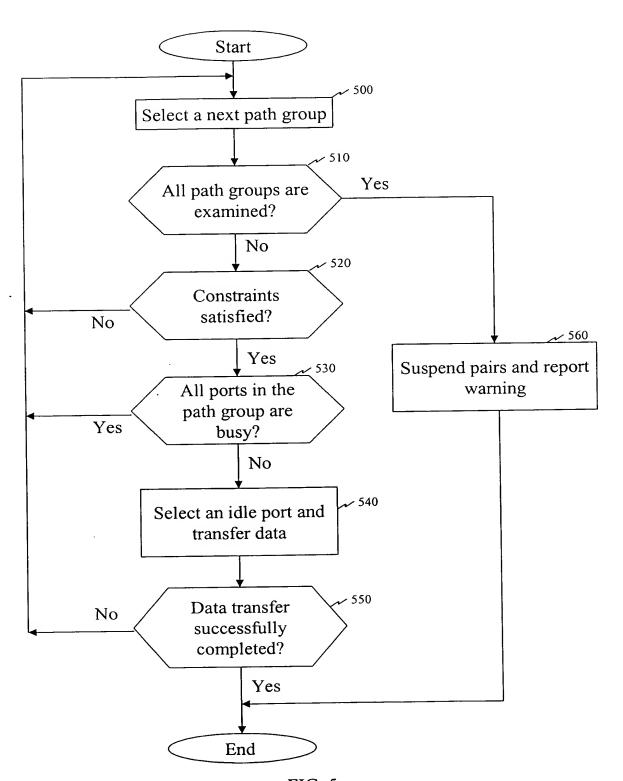


FIG. 5

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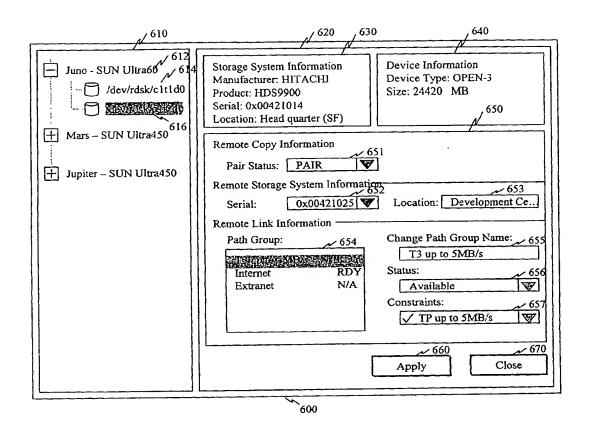


FIG. 6

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	× 700
Maximum throughpu	t constraints
Selected Path Group: T3 up to 5MB/s	710
Target Server - Device: Juno - /dev/rdsk/c1t2d0	
Maximum Throughput: 5 MB/s	720
Alarm Options:	.720
E-mail Address: admin@hitachi.com	730
Phone Number:	740
Apply Clear	760 ~ 770 Close

FIG. 7

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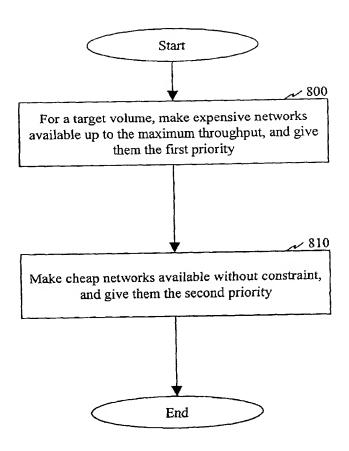


FIG. 8

. . . . .

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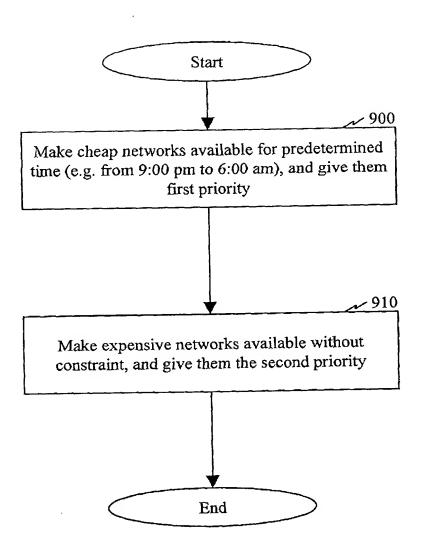


FIG. 9

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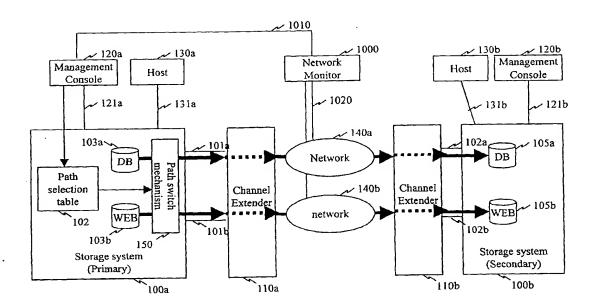


FIG. 10

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Network Name	Internet	1100
Warning	Overload (80% busy rate)	1110
Current Date and Time	12-12-2000:13:46	1120 سا

FIG. 11

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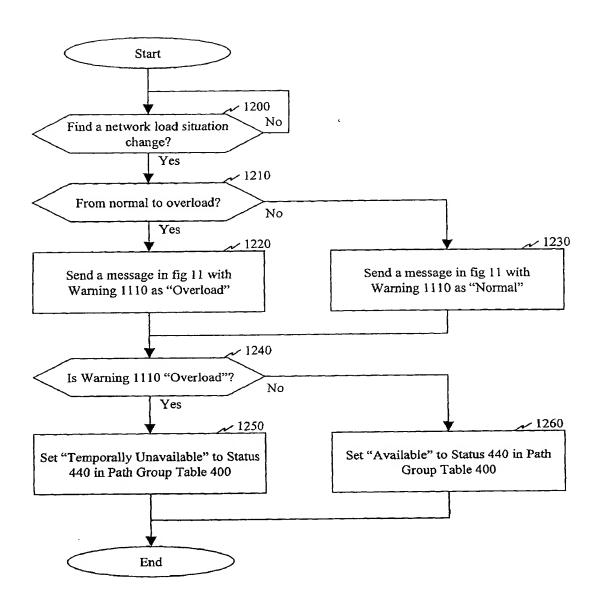


FIG. 12

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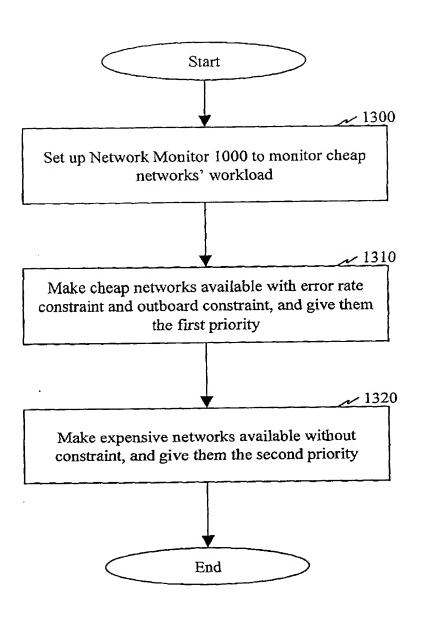
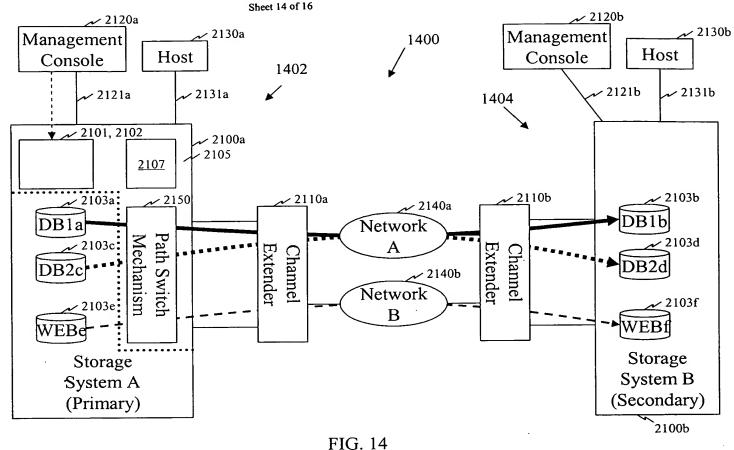


FIG. 13

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2101 2222 2216 2218 2220 2214 2212 Remote Remote Constraint Remote Path Group Status Link Link Link Number Number Number Number NULL 0 1 Max 5MB/s Available 0 4 2 3 Available 9:00am to 1 6:00pm only NULL Temporally 5 6 2 Busy rate Unavailable less than 70%

FIG. 16

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2202	2204	2206	2208	
Volume Number	Path Group Number	Path Group Number	Priority	2102 ✓
DB1a	1	2	1	
DB2c	1	2	2	
WEBe	2	NULL	3	

FIG. 15

			2232 سر
Priority	1		
Primary	Storage System A	Volume C	2234
Secondary	Storage System B	Volume D	2236
Offset Address	2048		2238
Size	8KB		2240 س

FIG. 17

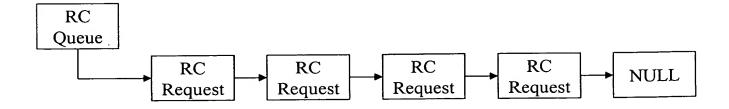


FIG. 18

Inventor(s): Kenji Yamagami, et al. Filed: October 2, 2003 Dckt. No. 16869B-036610US Sheet 16 of 16 Start 2500 Select a request based 2502 on priority and arrival time 2510 Select a next path group 2520 Yes All path groups are examined? No 2530 Constraints satisfied? No Yes Suspend pairs and report **2540** All ports in the warning path group are Yes busy? No 2550 Select an idle port and transfer data 2560 Data transfer No successfully completed? Yes End

Steve Y. Cho, Reg. No. 44,612, (650) 326-2400 Titled: Remote Copy with Path Selection and

Prioritization

FIG. 19